

AUS920010495US1

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FIG. 2

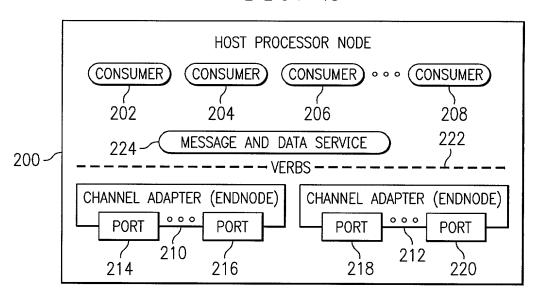
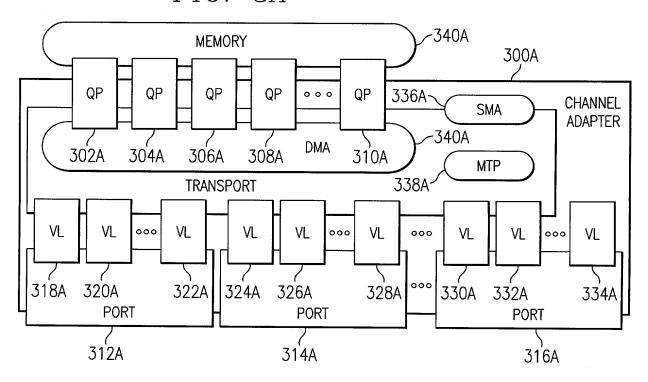
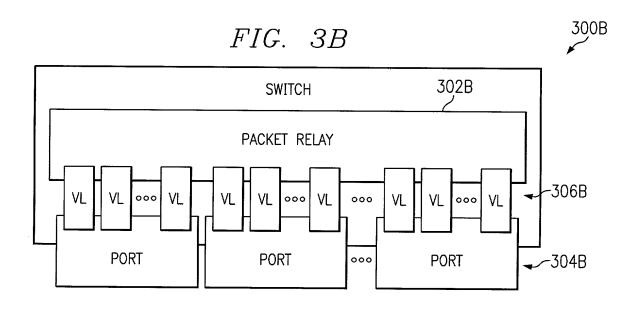
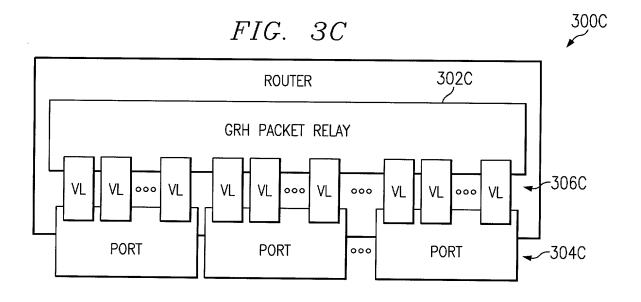


FIG. 3A



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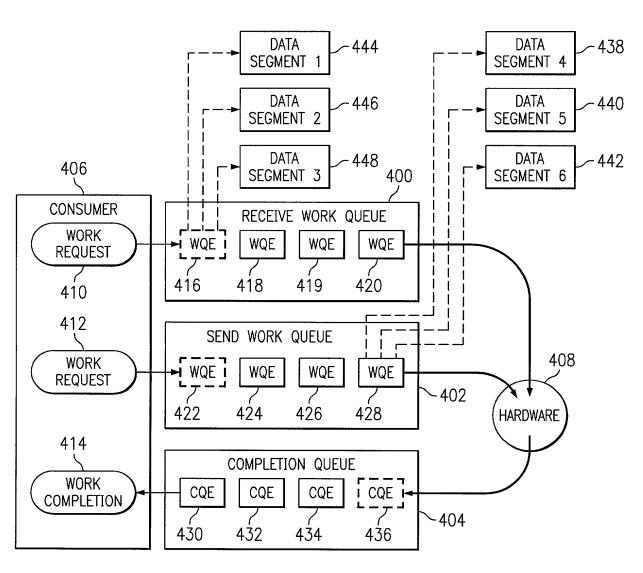


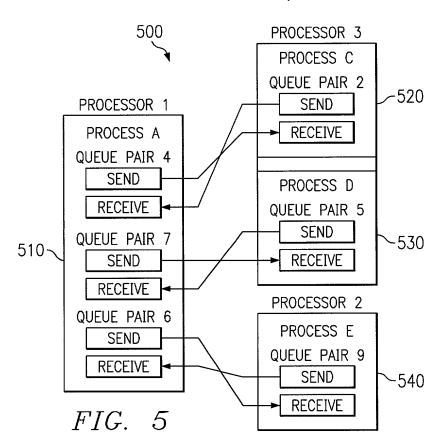
FIG. 4

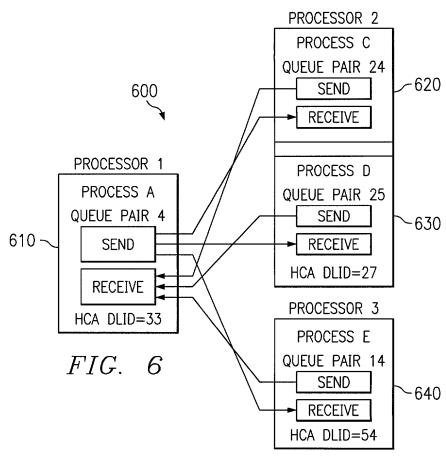
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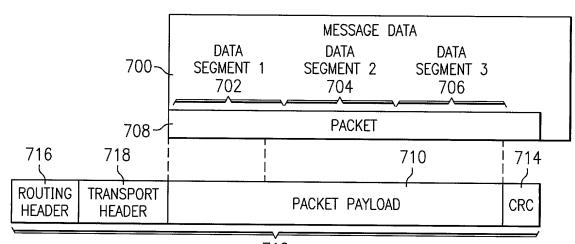




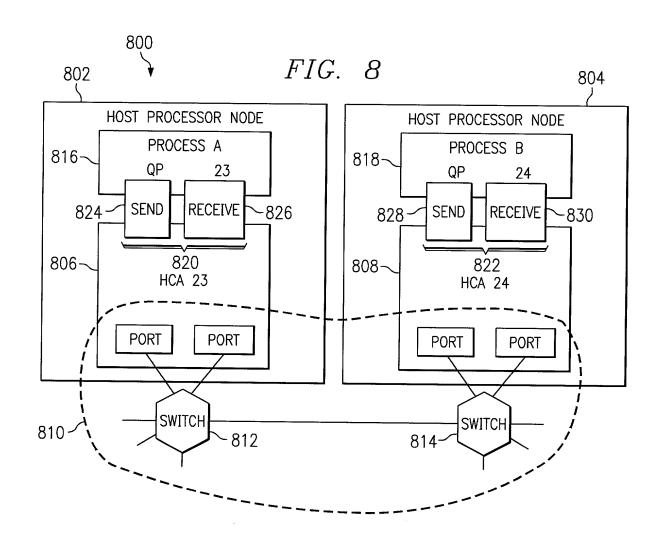
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FIG. 7



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DATA PACKET (ROUTED UNIT OF WORK)



Pfister et al. Method and Apparatus for Managing Data in a Distributed Buffer System 7/12 OBTAIN BLOCK OF VALIDITY FLAG LOCATIONS THAT FLAG, USING RDMA OBTAIN NORMAL WRITE FLAG OF UNPROCESSED ASSOCIATED WITH THAT BLOCK USING RDMA CORRESPONDING TO FIG. 16 RESET THE VALIDITY FLAG IN THE NODE LOCK ON BLOCK ELEMENT PRESENT ELEMENT VALID UNPROCESSED THAT. BLOCK? VALIDITY 1604 8 UNE EUI-64 PEK 912 HCA OR TCA ONE OR MORE LIDS PER 902 ONE EUI-64 PER CA ONE OF TCA PORT, UP TO 2^{LMC} LIDs ONE LID PER SWITCH PORT LMC=0 → ONE OR MORE → GUID'S PER PORT SINGLE EUI-64 GUID PER SWITCH 806 RECEIVE SEND **PORT PORT** PORT **PORT** CONTROL QPs -906 RECEIVE PORT **PORT** ENDNODE **PORT** PORT g G PORT SEND 910 IBM SWITCH PORT RECEIVE 9 0 SEND

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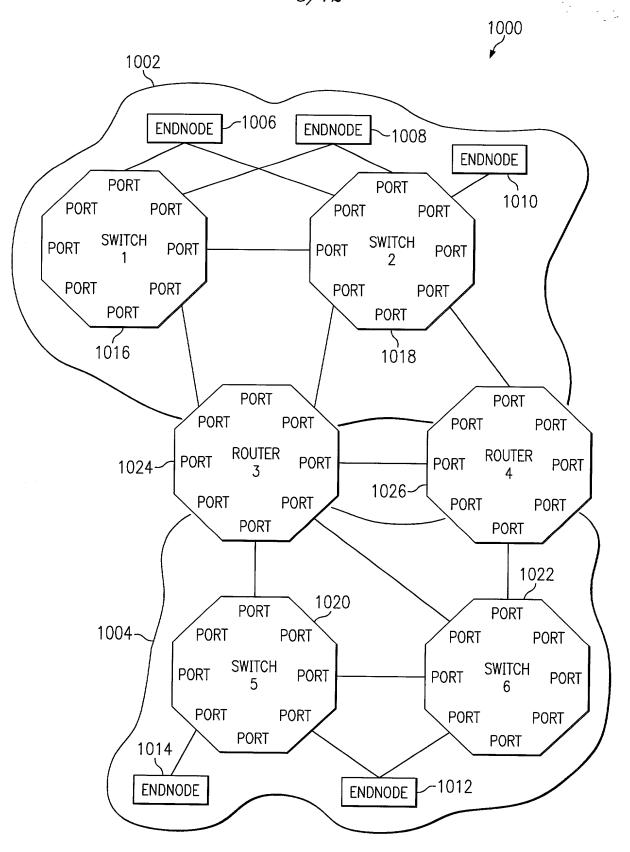
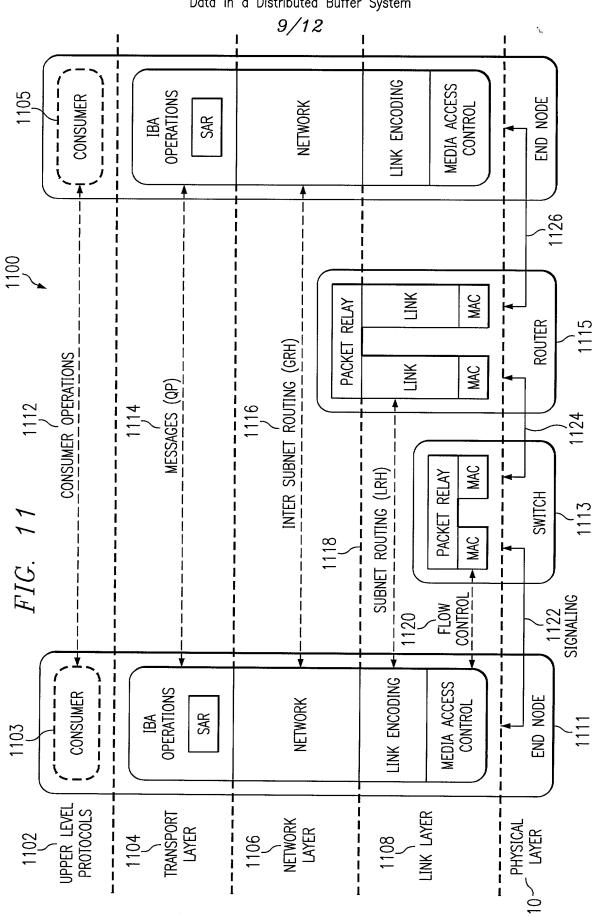


FIG. 10

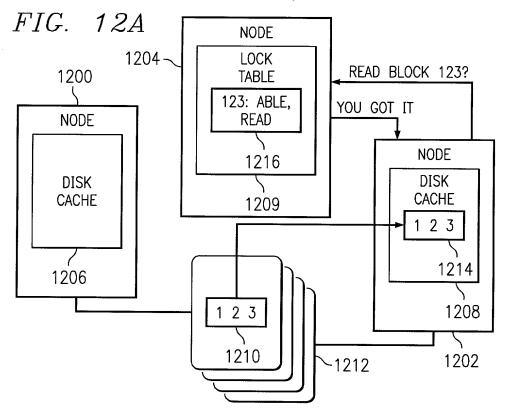
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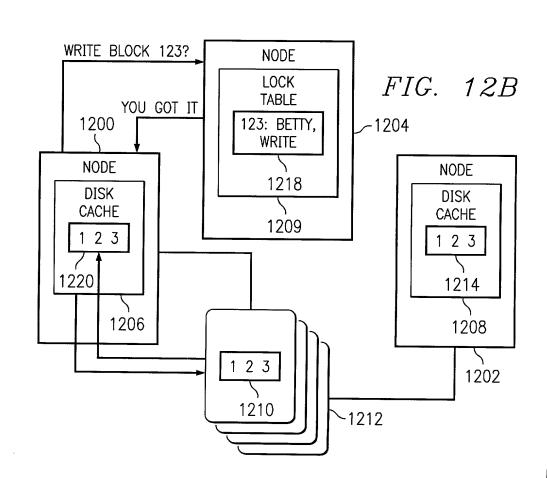


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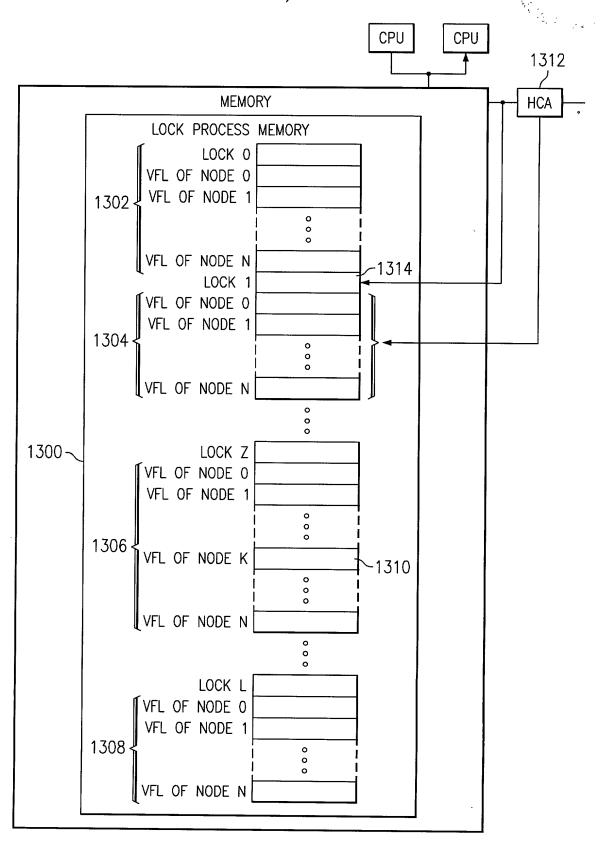


FIG. 13

YFS

AUS920010495US1 Pfister et al. Method and Apparatus for Managing Data in a Distributed Buffer System 12/12 FIG. 14 **START** 1400 OBTAIN LOCK ON BLOCK 1402 IS A NO COPY OF BLOCK IN CACHE? FIND SPACE IN CACHE 1406 YES OR MAKE SPACE BY 1404 REMOVING A BLOCK CHECK BUFFER'S VALIDITY REGISTER THE BLOCK FLAG: IS BLOCK COPY AND ALLOCATE CONTENT VALID -1408 VALIDITY FLAG NO FIG. 15 OBTAIN FRESH COPY **START** OF BLOCK FROM -1410 SECONDARY STORAGE SEARCH FOR UN-LOCKED 1500 -BLOCK WHOSE STORAGE MARK BLOCK'S VALIDITY IS TO BE REUSED FLAG INDICATING IT'S VALID -1412 1502 **END UNLOCKED** YES BLOCK AVAILABLE NO TAKE ACTION APPROPRIATE 1508 TO THE APPLICATION USING THE DATA DE-REGISTER BLOCK 1504 UPDATE CONTROL DATA STRUCTURES TO 1506-INDICATE SPACE USED BY BLOCK IS NOW FREE

END